Koch, Kristine

From: Koch, Kristine
Sent: Friday, January 31, 2014 11:48 AM
To: Koch, Kristine; Gene Revelas
Cc: 'Jim McKenna (jim.mckenna@verdantllc.com)'; 'Jennifer Woronets'
Subject: RE: Revised Section 5 Surface Water figure format

Gene – Could you also include the 6 detected Aroclor values in Figure 5.3-22, but not the ND values.

Thanks,

Kristine Koch
Remedial Project Manager
USEPA, Office of Environmental Cleanup

U. S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, Suite 900, M/S ECL-115
Seattle, Washington 98101-3140

(206)553-6705
(206)553-0124 (fax)
1-800-424-4372 extension 6705 (M-F, 8-4 Pacific Time, only)

From: Koch, Kristine
Sent: Friday, January 31, 2014 10:52 AM
To: 'Gene Revelas'
Cc: 'Jim McKenna (jim.mckenna@verdantllc.com)'; 'Jennifer Woronets'
Subject: RE: Revised Section 5 Surface Water figure format

Gene, The revised surface water figure is correct. The other figure (Figure 5.3-22) need to be presented horizontally (landscape) and then it is also correct.

I checked with Elizabeth, and they did not do a screen of AWQCs in the BHHRA, so that is why Eric had it incorporated into this part of the document, so it will have to remain. I'll let you know if any updates are needed to that evaluation or if it is adequate.

Regards,

Kristine Koch
Remedial Project Manager
USEPA, Office of Environmental Cleanup

U. S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, Suite 900, M/S ECL-115
Seattle, Washington 98101-3140

(206)553-6705
(206)553-0124 (fax)
1-800-424-4372 extension 6705 (M-F, 8-4 Pacific Time, only)

From: Gene Revelas [mailto:grevelas@integral-corp.com]
Sent: Tuesday, January 28, 2014 4:58 PM

To: Koch, Kristine
Cc: 'Jim McKenna (jim.mckenna@verdantllc.com)'; 'Jennifer Woronets'
Subject: FW: Revised Section 5 Surface Water figure format

Kristine –

Here is email on SW figures we discussed today. Please confirm this format works or lets discuss further if needed.

Thanks,

Gene

From: Gene Revelas
Sent: Friday, September 27, 2013 4:53 PM
To: Koch, Kristine
Cc: Jim McKenna ; Jennifer Woronets; Sandy Browning; Laura Jones
Subject: FW: Revised Section 5 Surface Water figure format

Hi Kristine –

Attached find a revised Surface Water figure formatted per your recent instruction for your review. We used a linear scale and split the dissolved and particulate data into separate bars as discussed. We also added the sample count (N) above each bar which indicates the number of stations sampled within each RM segment because the number of stations sampled varied throughout the Study Area (see DF RI Map 5.3-1a) and we felt that this was important to note on this rolled up data display. Finally, for the one value in this PCB congener plot that had a concentration greater than the revised y-axis maximum, we added a text box that lists the value for that sample. We would tailor the y-axis range for each analyte to maximize the data display visually and add these text box inserts as needed on a case-by-case basis to note values outside the plotted range.

Please let us know if this revised format reflects your instructions and we will generate revised figures for the other key and indicator chemicals.

In addition, as we reviewed this revised surface water figure internally, I asked my colleague Laura Jones, who had developed these surface water figures in consultation with EPA back in 2008, for her review. She likes this new format as a rolled-up summary of the surface water data. However, she noted that we lose some valuable information with this new format and we would like to discuss these concerns with you.

In particular, information on individual locations and their measured concentrations are lost when the data are rolled up by RM this way. I have attached DF RI Figure 5.3–22 which illustrates the level of detail lost. Figure 5.3-22 shows the station-specific concentrations along the east side, transects, and west side of the river. While perhaps not to be discussed in Section 5, this kind of information was used to support the CSM narrative in Section 10 (e.g., individual potential sources at the sub-RM scale for some chemicals are discussed relative to the proximal measured water and sediment concentrations). Note that many Section 5 figures are called out in Section 10 to support that narrative. Given these linkages between the Section 5 data presentation and the Section 10 CSM discussion we propose the following for Section 5.4:

> Include a panel B for each chemical in the format of Figure 35.3–22 so that each chemical has both the new rolled up version organized by flow event as well as the detailed station-by-station display organized by east, west, and transect sampling locations. We would revise Figure 5.3-22B to be landscape format to match the look of the panel A format. This B panel also provides the total concentration for each sample as the bars are still stacked. This total was another visual metric we lost by splitting the bars in panel A. We think having both

of these panels for each chemical retains some important finer-scale information generated during the surface water sampling program and that detail informs the overall CSM for the site.

Let's discussed further as needed.

Thanks very much,

Gene

Gene Revelas | Senior Managing Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 418 | Cell: 360.870.4950 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

Gene Revelas | Senior Managing Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 418 | Cell: 360.870.4950 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY